

Course offerings and class schedules change each year to meet the needs of our enrolled families. We use Apologia textbooks for most of our science courses. Sample textbook chapters (modules) are available at www.Apologia.com.

Monthly Classes Students attend one day a month (September through April) to do lots of FUN science experiments together. We provide you with a reading schedule and additional engaging activities students may do at home to further explore the concepts investigated during class.



🌿 Science ABCs (For 6 to 8 year olds)

We have tons of fun with teacher-developed activities and experiments beginning with every letter of the alphabet! Students are introduced to many fields of science: Biology, Chemistry, Physics, Earth Sciences, etc. This class runs on a three-year cycle, with new experiments every year. A student could enjoy this class three years in a row! This class meets once a month, 9 AM - noon. (This class does not use a textbook.)

🌿 Earth Sciences (For 8 to 12 year olds)

Students explore Astronomy, Geology, and Meteorology. We build a scale model of the Solar System that is ½ mile long! Students learn to identify moon phases, eclipses, and circumpolar constellations. Our Geology unit includes rock collecting, minerals, fossils, core sampling, and topographic maps. In our Weather unit, we learn about the water cycle, cloud formation, and what to do during storms. Very little writing is done in this class. It meets once a month, 9 AM - 2 PM.

Apologia textbook: Exploring Creation with Astronomy by Jeannie Fulbright (either 1st or 2nd Edition) (Notebooking journal is not used.)

Master books: The Geology Book by Dr. John D. Morris;

The Weather Book by Michael Oard



🌿 Zoology 1 – Flying Creatures (For 8 to 12 year olds)

Students learn about animal classification, the dynamics of flight, how to attract various bird species to your yard and identify them by looking at their special physical characteristics. They discover the value of bats in our world, and then investigate entomology, the study of insects. Students design experiments with crickets, darkling beetles, and caterpillars. They also learn how to attract and catch insects for scientific study. It meets once a month, 9 AM - 2 PM.

Apologia textbook and associated notebooking journal for: Exploring Creation with Zoology 1: Flying Creatures by Jeannie Fulbright

Weekly Classes Each class meets two hours per week (August through May). We perform textbook activities as well as many additional experiments and do relevant projects. Compound and dissecting microscopes, preserved specimens, chemicals, etc. are provided. Students learn to use these correctly in a fully equipped science lab environment and enjoy live animals, too!



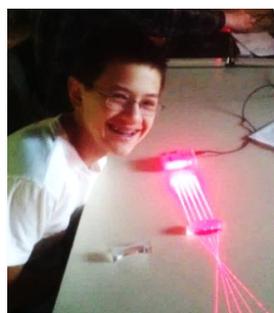
 **Chemistry and Physics** (Generally for 6th graders) This course provides an excellent transition from elementary to middle school science. Students engage in exciting hands-on activities and experiments using the scientific method. They are introduced to study skills (writing lab summaries, organizing notes, taking tests, etc.) in preparation for future classes like General Science. Apologia textbook and associated notebooking journal for: Exploring Creation with Chemistry and Physics are used.

 **General Science** (Generally for 7th graders) Students explore a wide range of topics including the history of science, the scientific method, astronomy, geology, paleontology, atoms, molecules, motion, simple machines, life science, oceanography, and ecology. This course is a step up from earlier classes, requiring a significant amount of reading. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with General Science are used.

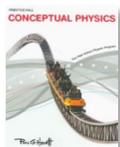


 **Physical Science** (Generally for 8th graders, the same year as Pre-Algebra) Students learn about states of matter, atomic structure, chemical reactions, Newton's Laws of motion, energy, electricity, magnetism, light, sound, the atmosphere, the hydrosphere, weather, the structure of the earth, and conducting research. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with Physical Science are used. (1 high school credit with final grade $\geq 85\%$)

 **Biology** (Generally the same year as Algebra 1) Students explore classification, cellular biology, Mendelian genetics, dissection, and ecosystems. Long-term, extra credit projects include an insect collection, tree leaf collection, and an owl pellet skeleton reconstruction. Apologia textbook, spiral student notebook, and solutions/tests manual for the **NEW 3rd Edition** (3 BOOK SET) of Exploring Creation with Biology are used. (1 high school credit)



 **Conceptual Physics** (Prerequisite: Completion of Algebra 1) Students learn the mechanics of physics, Newton's Laws of motion, properties of matter, heat, sound, light, electricity, magnetism, Einstein's theories of relativity, and atomic & nuclear physics.



We use Conceptual Physics © 2009 by Paul G. Hewitt (1 high school credit)
Textbook - ISBN-13: 978-0133647495
Concept-Development Practice Workbook - ISBN-13: 978-0133647303
Laboratory Manual - ISBN-13: 978-0133647525

 **Health & Nutrition** (High school level, 1-semester course available in summer, fall, or spring for ½ credit) Students cover a thorough survey of every human body system and include hands-on activities, multisensory body assessment (importance of vital signs, etc.), social, mental, emotional health education, as well as general first aid. Apologia Health & Nutrition textbook and student notebook are used.

